

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number
WO 2005/090677 A1

- (51) International Patent Classification⁷: D21H 17/06, 17/02, 17/74
- (21) International Application Number: PCT/FI2005/050093
- (22) International Filing Date: 18 March 2005 (18.03.2005)
- (25) Filing Language: Finnish
- (26) Publication Language: English
- (30) Priority Data:
20040428 19 March 2004 (19.03.2004) FI
- (71) Applicant (for all designated States except US): M-REAL OYJ [FI/FI]; Revontulentie 6, FI-02100 Espoo (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SIIJENIUS, Petri [FI/FI]; Raitapurontie 57, FI-08500 LOHJA AS. (FI). SUORTAMO, Pirita [FI/FI]; Ritoharjuntie 10 C 12, FI-40270 PALOKKA (FI).
- (74) Agent: FORSSÉN & SALOMAA OY; Eerikinkatu 2, FI-00100 Helsinki (FI).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
- with international search report
 - before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 2005/090677 A1

(54) Title: USE OF BETULINE AS A FILLER IN PAPER AND BOARD

(57) Abstract: The invention relates to the use of betuline as a filler in paper or board, and to a method for producing paper or board. According to the invention, an aqueous slurry is made of betuline, followed by the addition of said slurry to the pulp during the production of paper or board, and removal of water from the paper web, and then the production of paper or board is continued in a conventional manner.